

I claim:

1. A device for automatic tire inflation and tire pressure display, comprising:

a tire pressure measurement unit for detecting a tire pressure value of a tested tire and wirelessly displaying said tire pressure value on a display unit
5 in a vehicle, allowing a user to maneuver a function key and select an operation according to data displayed on said display unit and send a selected operation message to a tire room to execute tire inflation or deflation;

a tire temperature sensor disposed in said tire room and used to measure a
10 temperature of said tire for wirelessly displaying on said display unit in the vehicle via said tire pressure measurement unit, allowing the user to know a present temperature status thereof; and

a gradienter disposed in said tire room and used to measure a balance of said tire for wirelessly displaying on said display unit in the vehicle via said tire
15 pressure measurement unit, allowing the user to know a present balance status thereof.

2. The device for automatic tire inflation and tire pressure display as claimed in

claim 1, wherein said tire pressure measurement unit comprises:

a voltage regulating circuit of a power source for providing working voltages
20 for subassemblies;

a wireless transceiving module;

an inflation/deflation control component; and

a first microprocessor control unit connected to said voltage regulating circuit of power source, said wireless transceiving module and said inflation/deflation control component, said first microprocessor control unit

5 being used to process measured signal data and send out said measured signal data wirelessly via said wireless transceiving module or receive signals from said wireless transceiving module for operation of said inflation/deflation control component.